

What is claimed is:

1. A single focus lens comprising, arranged along an optical axis in order from the object side:
 - a first lens component having positive refractive power, having a convex object-side surface, and being made of glass;
 - a stop;
 - a second lens component having a meniscus shape with a concave object-side surface, being made of plastic, and having at least one aspheric surface;
 - a third lens component having a meniscus shape with a convex object-side surface, being made of plastic, and each of the object-side surface and the image-side surface being aspheric;
 wherein

the following conditions are satisfied:

$$1.0 < f_1 / f < 2.5$$

$$R_1 / f < 3.0$$

$$1.0 < \Delta ZF / \Delta ZR < 2.0$$

$$0.3 < \Delta ZRA / \Delta ZR < 0.6$$

$$0.7 < (Bf - \Delta ZR) / M$$

$$0.6 < (|R_2| - R_1) / (R_1 + |R_2|)$$

where

f_1 is the focal length of the first lens component,

f is the focal length of the single focus lens,

R_1 is the radius of curvature of the object-side surface of the first lens component,

ΔZF is the object-side shape displacement at the maximum height at which an image forming light ray passes through the image-side surface of the third lens component,

ΔZR is the image-side shape displacement at the maximum height at which an image forming light ray passes through the image-side surface of the third lens component,

ΔZRA is the image-side shape displacement at one-half the maximum height at which an image forming light ray passes through the image-side surface of the third lens

27 component,
28 Bf is the back focal length of the single focus lens based on air being between the image-
29 side surface of the single focus lens and the image plane,
30 M is the maximum image height at the image plane, and
31 R2 is the radius of curvature of the image-side surface of the first lens component.

1 2. The single focus lens of claim 1, wherein the first lens component is a lens element.

1 3. The single focus lens of claim 2, wherein the second lens component is a lens element.

1 4. The single focus lens of claim 3, wherein the third lens component is a lens element.

1 5. The single focus lens of claim 1, wherein the first lens component, the second lens
2 component, and the third lens component are arranged in that order along the optical axis from
3 the object side without any intervening lens element.

1 6. The single focus lens of claim 5, wherein each of the first, second, and third lens components
2 consists of a lens element.

1 7. The single focus lens of claim 1, wherein the single focus lens is formed of only three lens
2 components.

1 8. The single focus lens of claim 7, wherein the first lens component is a lens element.

1 9. The single focus lens of claim 8, wherein the second lens component is a lens element.

1 10. The single focus lens of claim 9, wherein the third lens component is a lens element.

1 11. The single focus lens of claim 1, wherein the first lens component is plano-convex in shape
2 with the planar surface on the image side and each of the object-side surface and the image-side
3 surface of the second lens component is aspheric.

1 12. The single focus lens of claim 11, wherein the first lens component is a lens element.

1 13. The single focus lens of claim 12, wherein the second lens component is a lens element.

1 14. The single focus lens of claim 13, wherein the third lens component is a lens element.

1 15. The single focus lens of claim 11, wherein the first lens component, the second lens
2 component, and the third lens component are arranged in that order along the optical axis from
3 the object side without any intervening lens element.

1 16. The single focus lens of claim 15, wherein each of the first, second, and third lens
2 components consists of a lens element.

1 17. The single focus lens of claim 11, wherein the single focus lens is formed of only three lens
2 components.

1 18. The single focus lens of claim 17, wherein the first lens component is a lens element.

1 19. The single focus lens of claim 18, wherein the second lens component is a lens element.

1 20. The single focus lens of claim 19, wherein the third lens component is a lens element.